

ATGTGCTGTACCAAGAGTTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTC
M C C T K S L L L A A L M S V L L L H L

TGCGGCGAATCAGAAGCAGCAAGCAACTTTGACTGCTGCTTGGATACACAGACCGTATT
C G E S E A A S N F D C C L G Y T D R I

CTTCATCCTAAATTATTGTGGGCTTCACACGGCAGCTGGCCAATGAAGGCTGTGACATC
L H P K F I V G F T R Q L A N E G C D I

AATGCTATCATCTTTCACACAAGAAAAAGTTGTCTGTGCGCAATCCAAAACAGACT
N A I I F H T K K K L S V C A N P K Q T

TGGGTGAAATATATTGTGCGTCTCCTCAGTAAAAAGTCAAGAACATGTAA
W V K Y I V R L L S K K V K N M *

FIG.1









ATGAAAGTTTCTGCAGTGCTTCTGTGCCCTGCTGCTCA TGACAGCAGCTTTCAACCCCCAG
 M K V S A V L L C L L L M T A A  F N P  (pyroQ)
 GGACTTGCTCAGCCAGATGCAC TCAACGTCCCATCTACTTGCTGCTTCACATTTAGCAGT
 G L A Q P D A   (pyroQ)
 AAGAAGATCTCCTTG CAGAGGCTGAAGAGCTATGTGATCACCACGAGGTGTCCCCAG
 K K I S L Q R L K S Y V I T S R C P Q
 AAGGCTGTCA TCTTCAGAACCAAACTGGGCAAGGAGATCTGTGCTGACCCAAAGGAGAAG
 K A V I F R T K L G K E I C A D P K E K
 TGGGTCCAGAATTATGAAACACCTGGGCCGGAAGCTCACACCTGAAGACTTGA
 W V Q N Y M K H L G R K A H T     *

FIG.2

```

75 ANPKQTWVKYIVRLLSKKVK 94
|:| ||: ::|..:
51 ADPRXXWVQDAKKYLDQISQ 70

```

FIG. 3

```

1 MKVSAVLLCLLLMTAAFNPPQGLAQPDALNVPSTCCFTFSSKKISLQRLKS 50
| | | . | | | | . | | | | | : | | | . | | | . |
1 MKASALLCLLLTAAAFSPQGLAQPVGINTSTTCYRFINKKIPKQRLES 50

51 YVITT.SRCPQKAVIFRTKLGKEICADPKEKWVQNYMKHLGRKAHTLKT 98
| | | | | . | | | | | | | | | . | | | : | | |
51 YRRTTSSHCPREAVIFKTKLDKEICADPTQKWVQDFMKHLDKKTQTPKL 99

```

FIG. 4

MCP-4 POLYPEPTIDES

cDNA	MKVS	AVLLCL	LLMTAA	FNIPQ	GLAQPDALNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG	RKAHTLTKT
Bac 1	.....	.....	.....	FNIPQ	GLAQPDALNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG	RKAHTLTKT
Bac 2	.....	.....	.....	.....	LAQPDALNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG	RKAHTLTKT
Bac 3	.....	.....	.....	.....	*QP	DALNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG
Dro1	.....	.....	.....	*Q	GLAQPDALNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG	RKAHTLTKT
Dro2	.....	.....	.....	.....	GLAQPDALNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG	RKAHTLTKT
Dro3+	.....	.....	.....	.....	.....	LNV	PSTCCFTFSS	KKISLQRLKS	YVITTSRCPQ	KAVIFRTKLG	KEICADPKEK	WVQNYMKHLG

* GLUTAMINE OR PYROGLUTAMATE
ITALICS HETEROGENEOUS CARBOXYL TERMINI

HOMOLOGY COMPARISONS

[illegible]

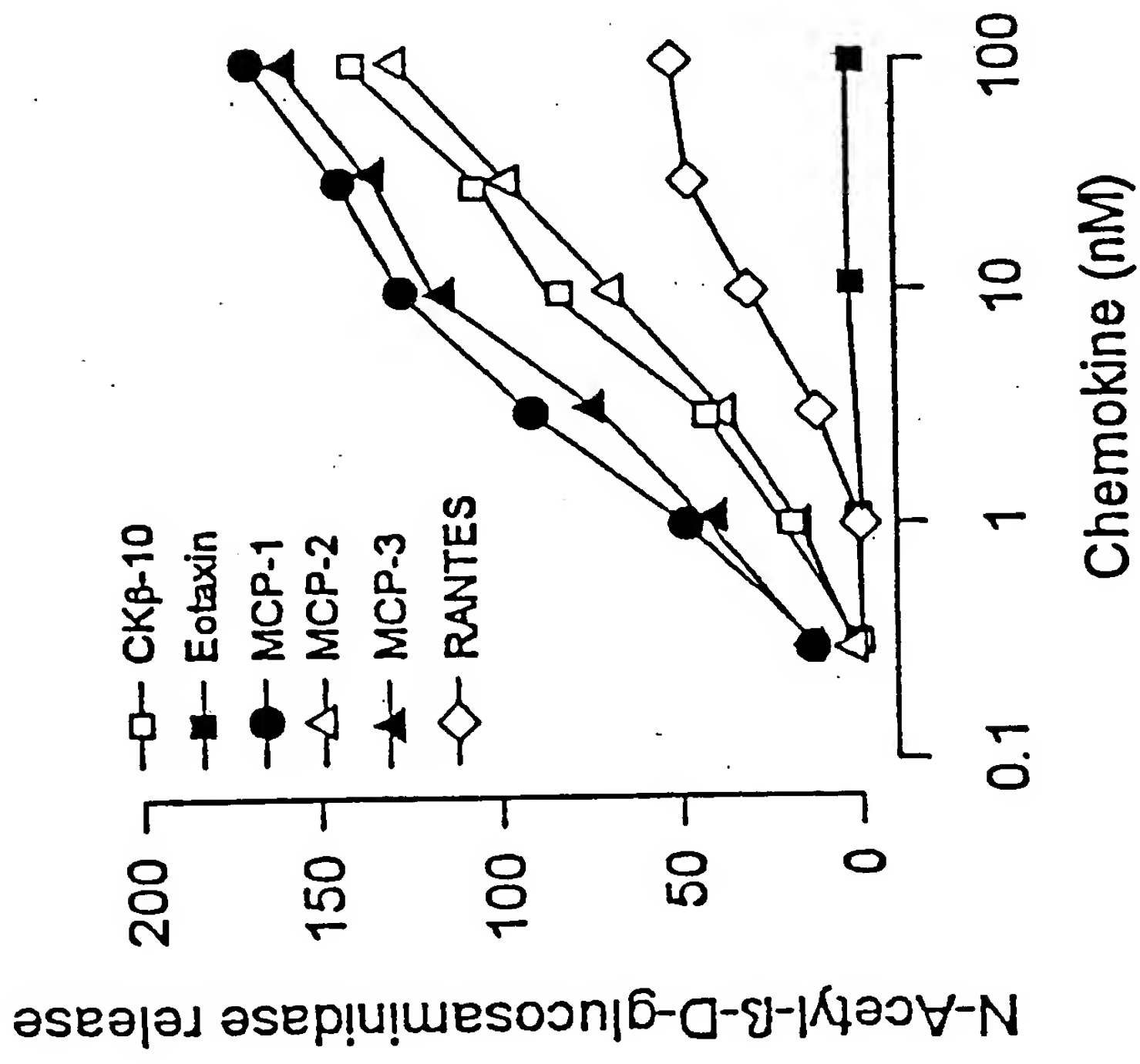


FIG. 6A

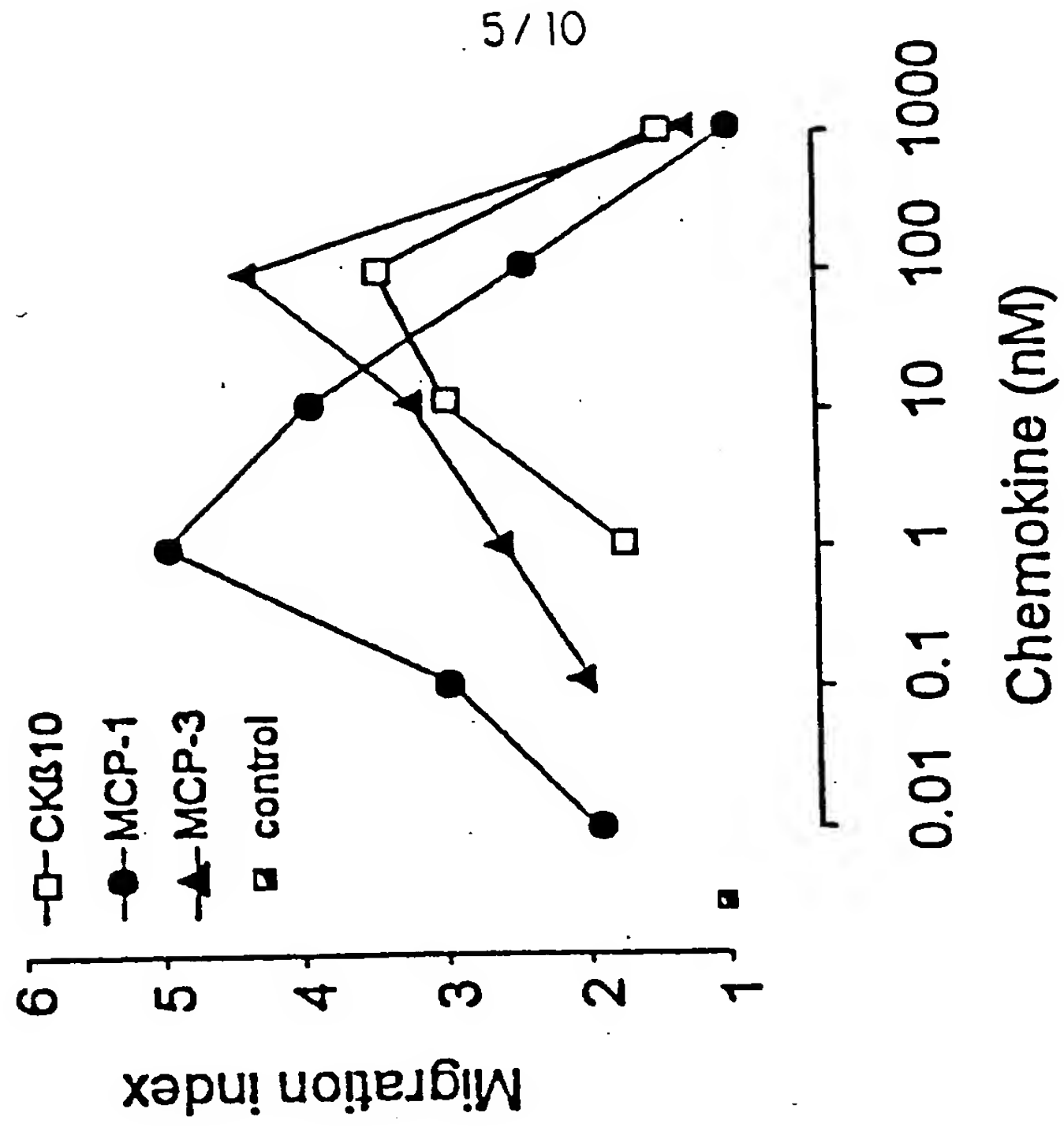


FIG. 6B

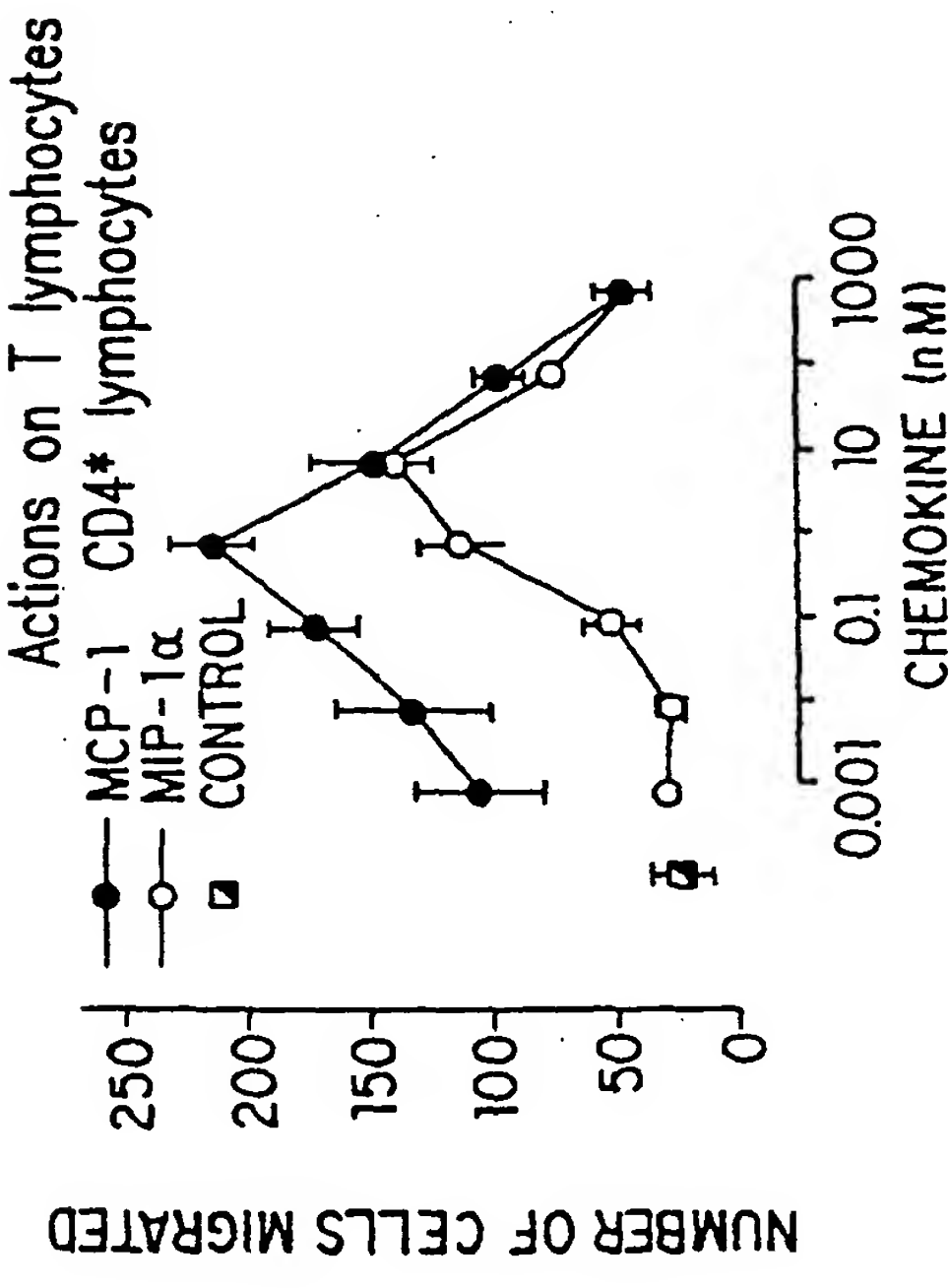


FIG.7A

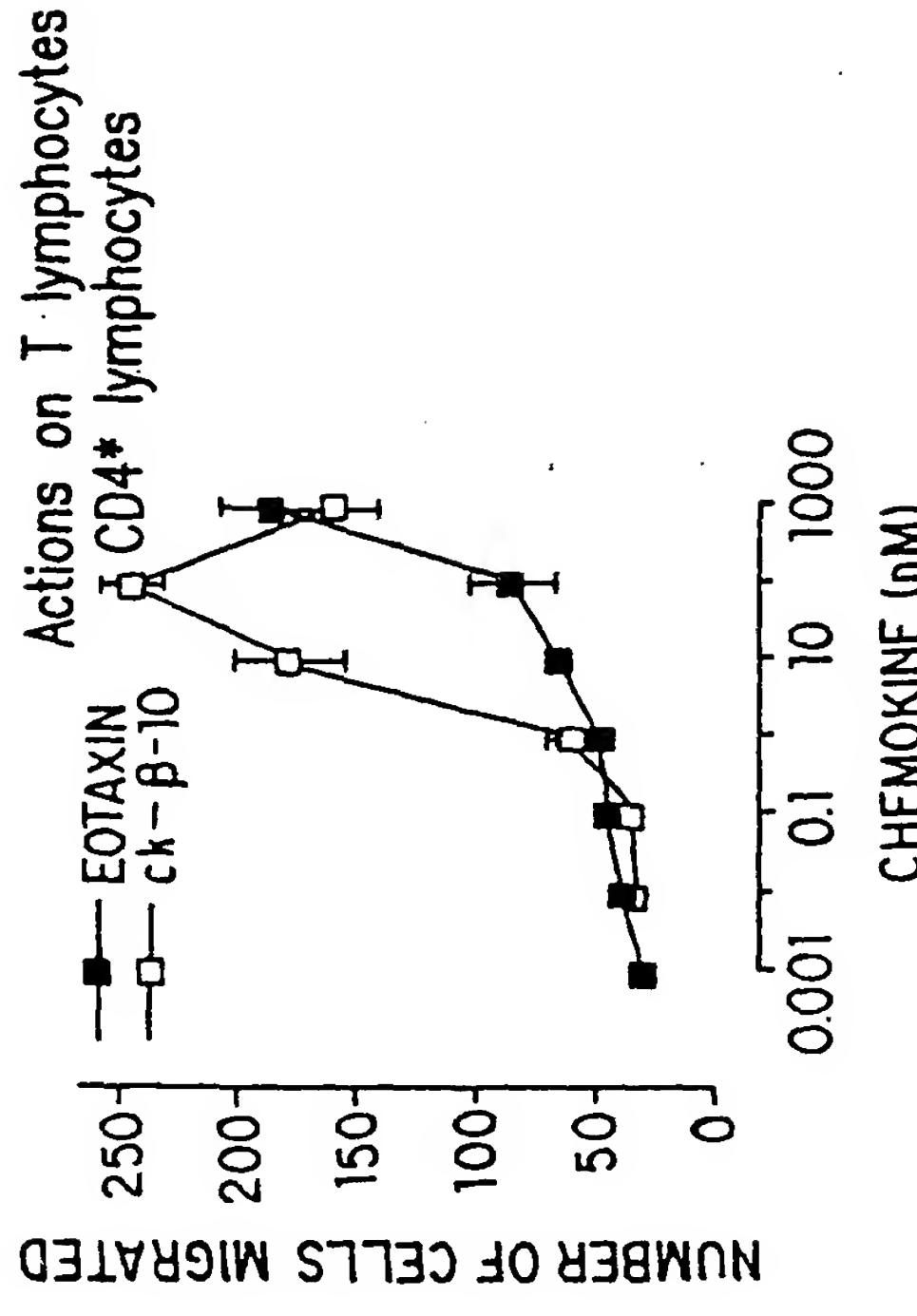


FIG.7B

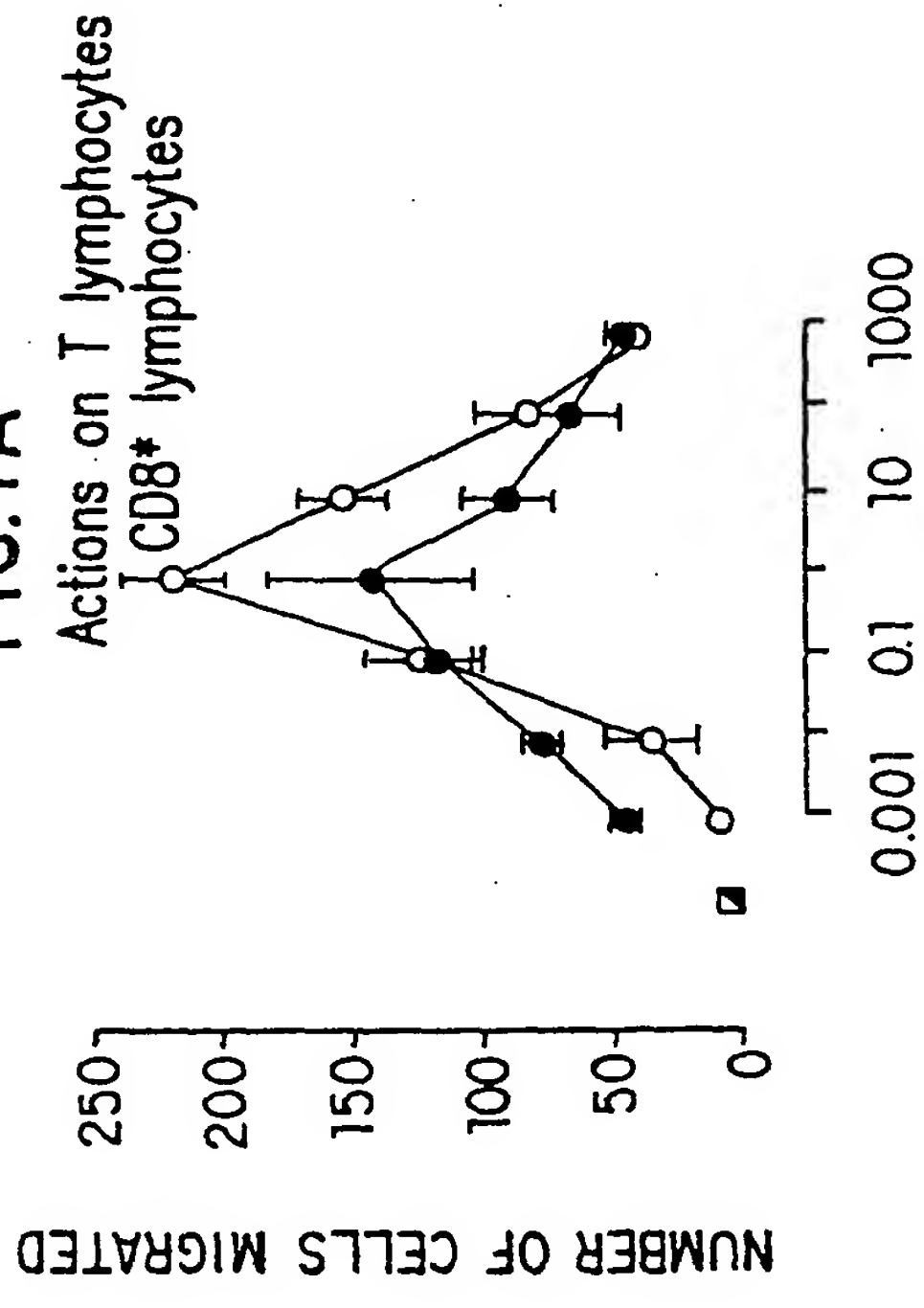


FIG.7C

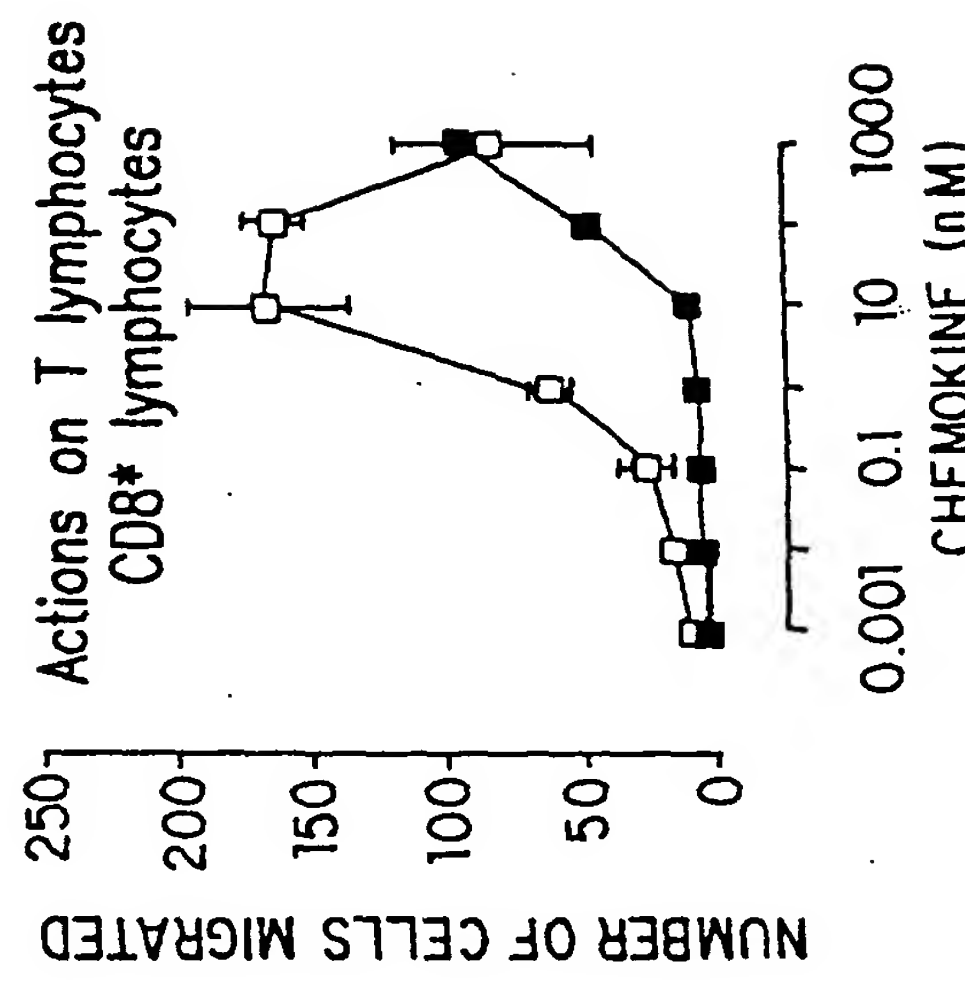


FIG.7D

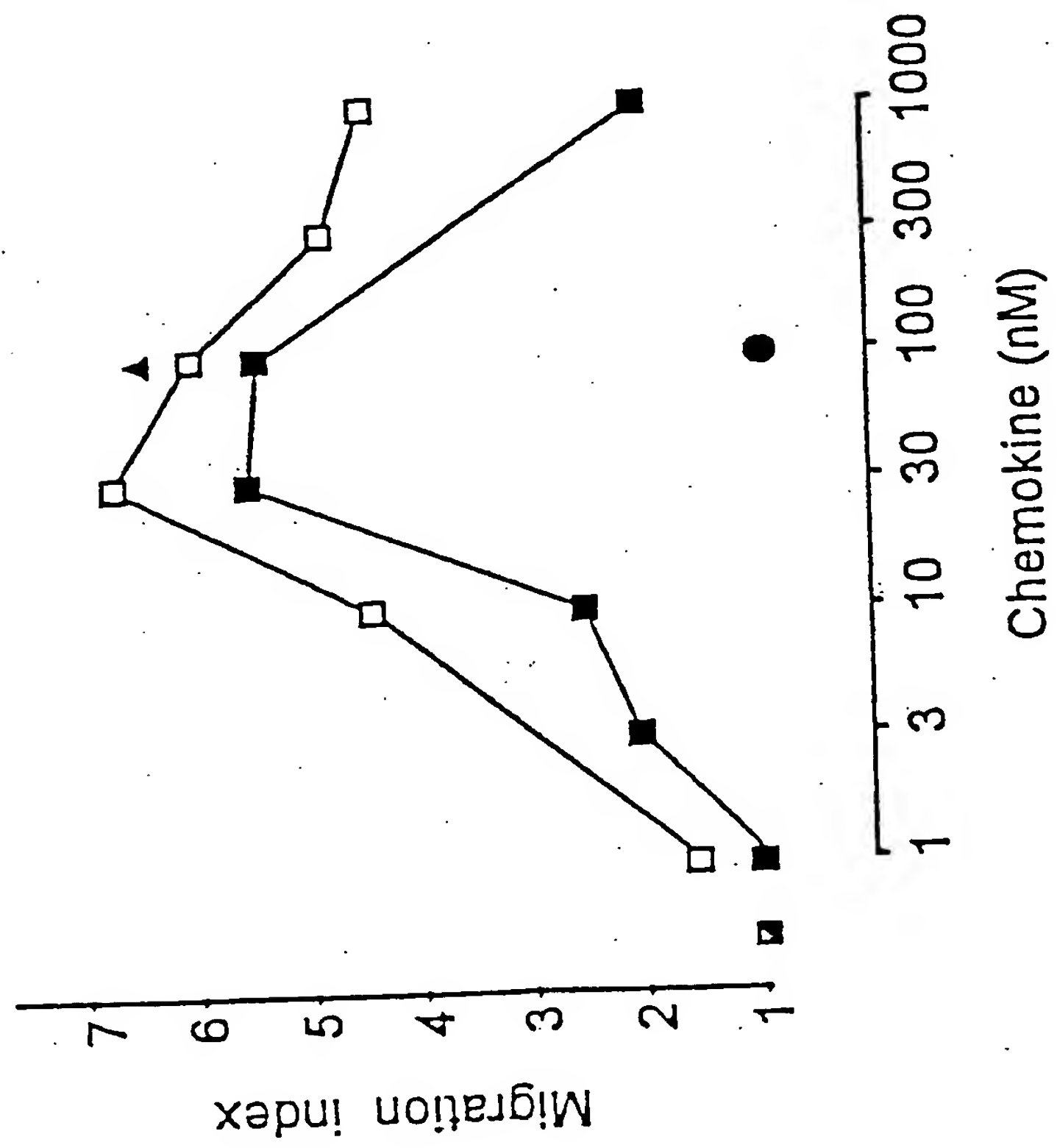


FIG. 8A

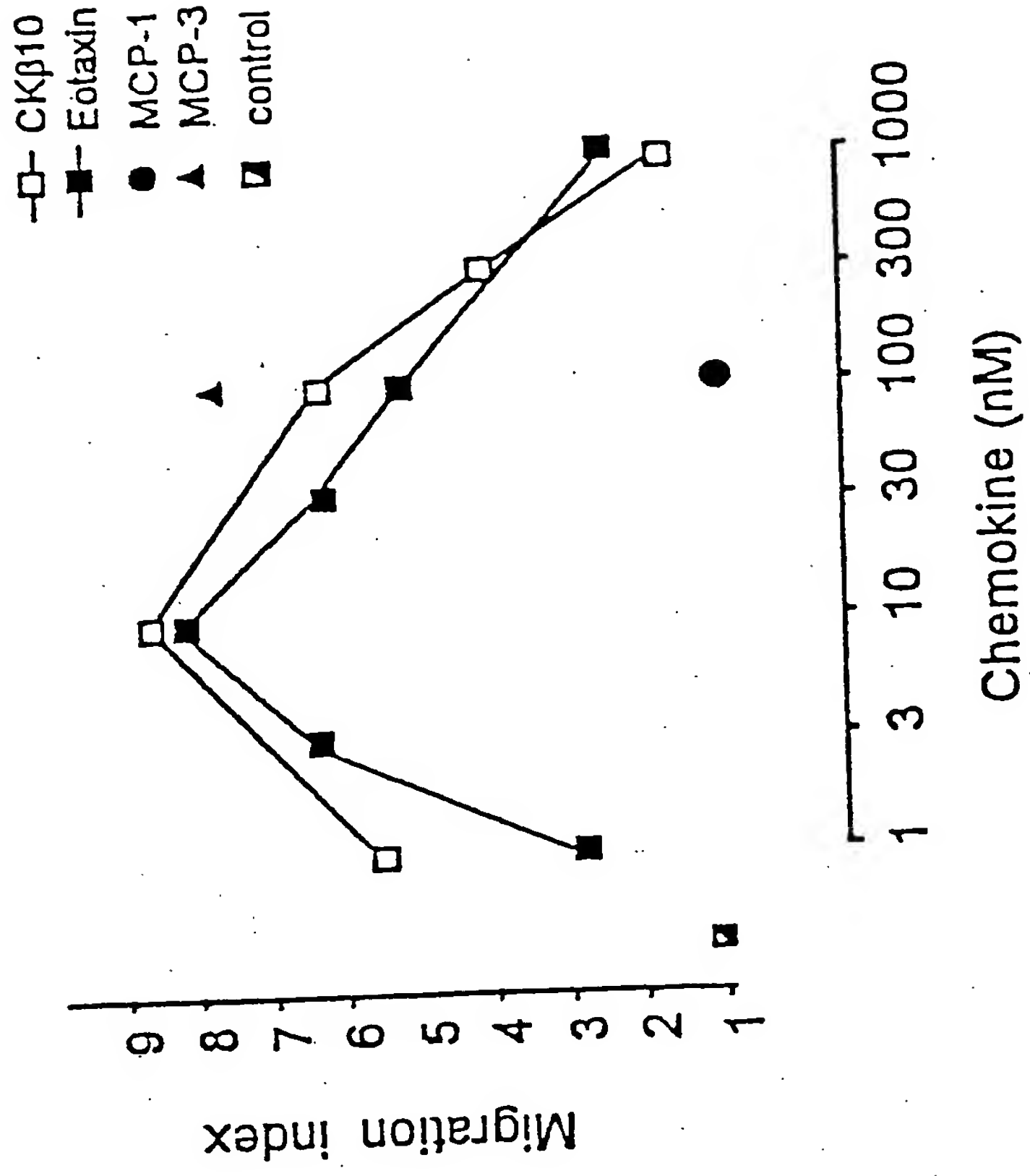


FIG. 8B

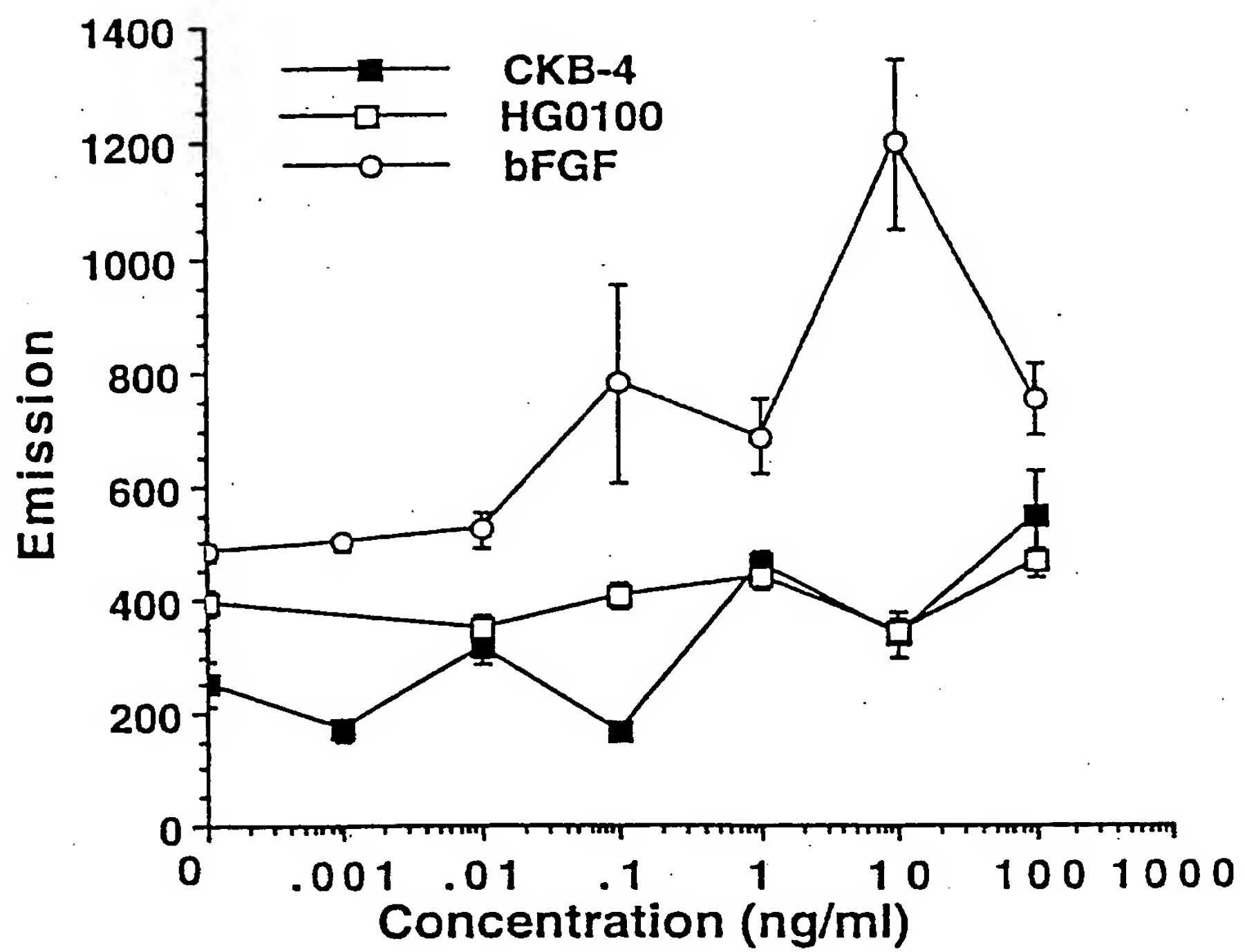


FIG. 9

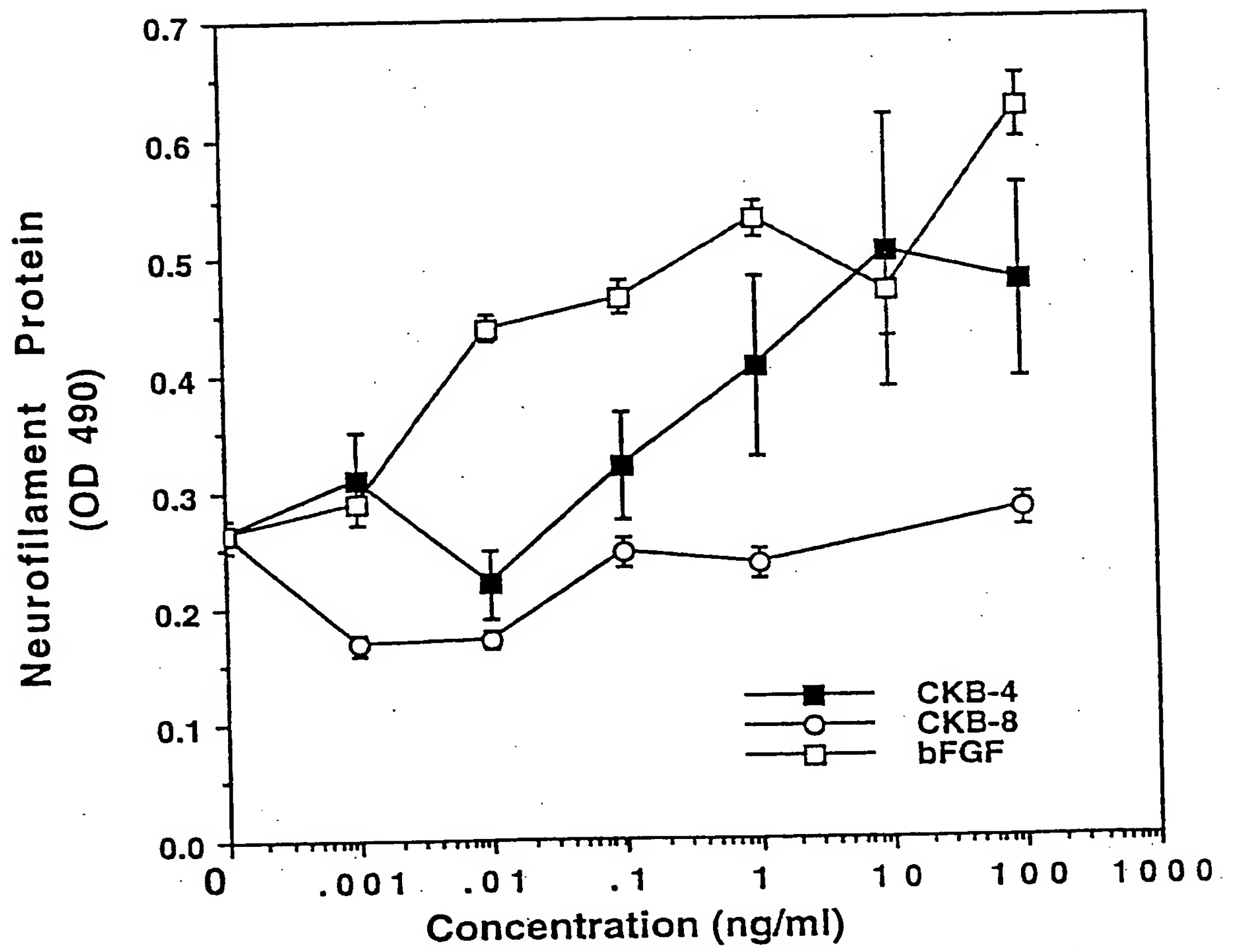


FIG. 10

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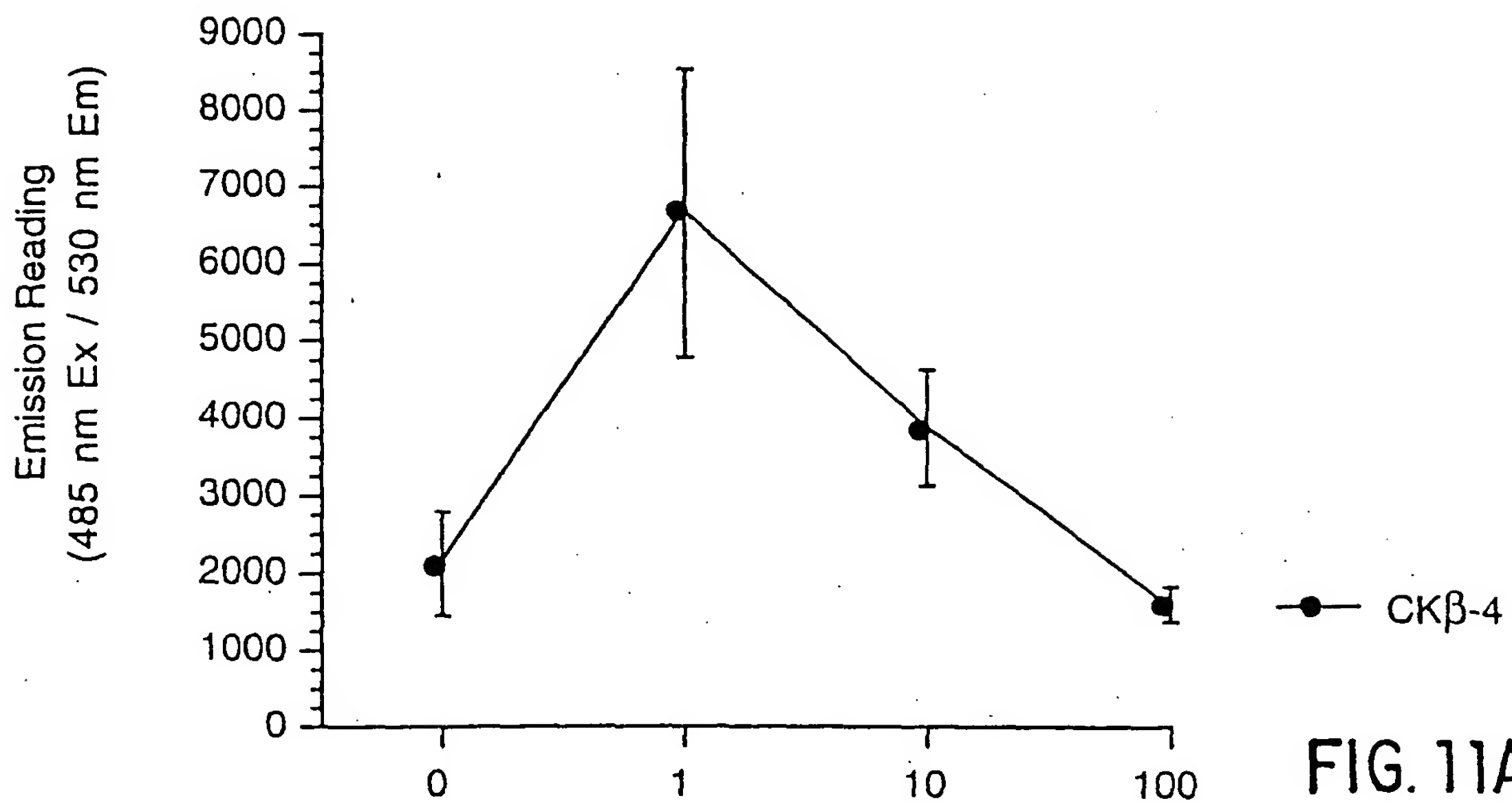


FIG. 11A

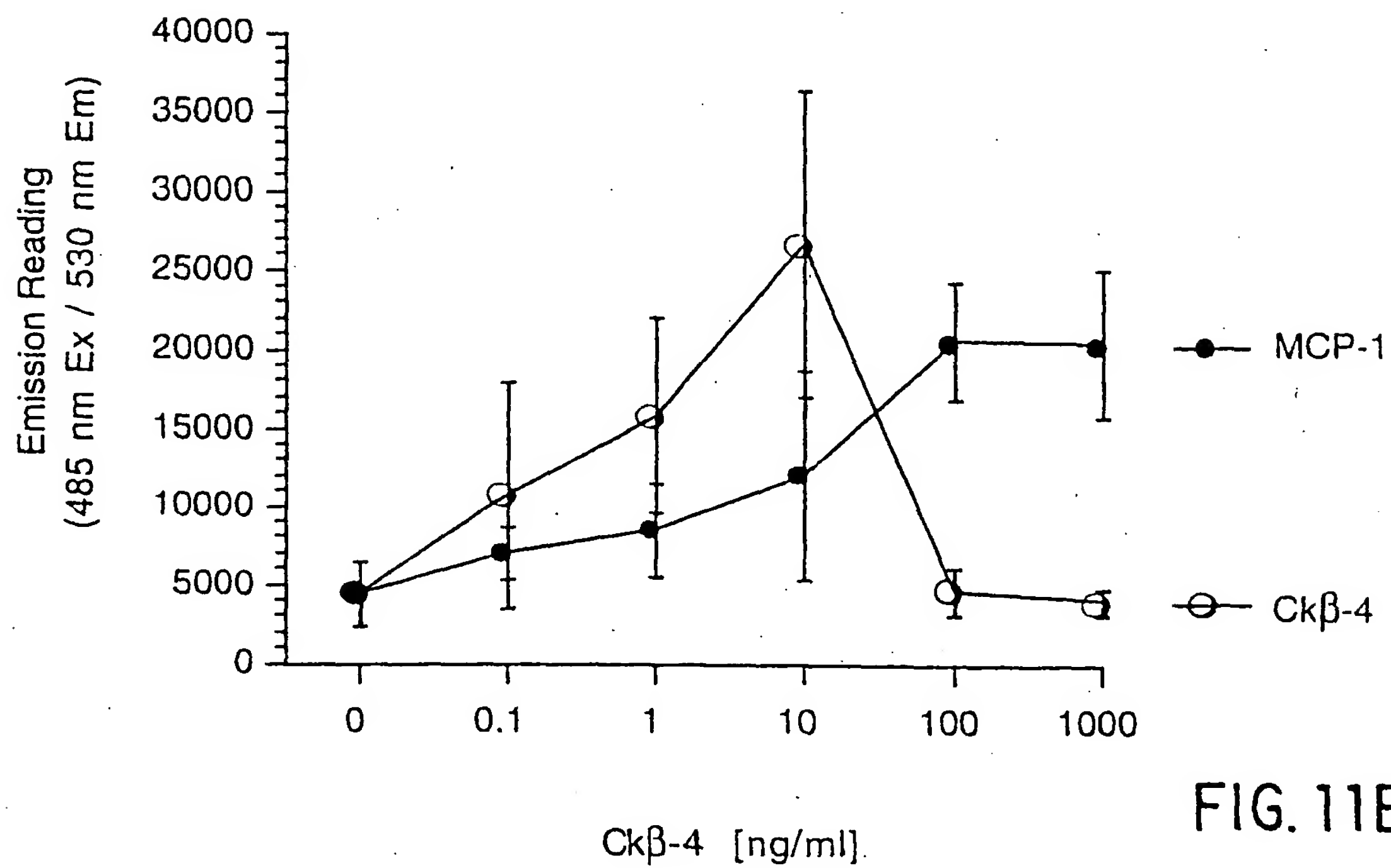


FIG. 11B